

Application Number: 10/511,807

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Attorney Docket: NL021156

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A method of coding an multi-channel audio signal, the method

comprising:

- generating a monaural signal comprising a combination of at least two input audio channels wherein the at least two input audio channels are time/frequency sliced such that they can be analyzed as a function of time,

- determining a set of spatial parameters indicative of spatial properties of the at least two input audio channels, the set of spatial parameters including a parameter representing a measure of similarity of waveforms of the at least two input audio channels;

generating an encoded signal comprising the monaural signal and the set of spatial parameters, wherein the step of generating an encoded signal comprising the monaural signal and the set of spatial parameters comprises generating a set of quantized spatial parameters, each introducing a corresponding quantization error relative to the corresponding determined spatial parameter, wherein at least one of the introduced quantization errors is controlled to depend on a value of at

least one of the spatial parameters; wherein the step of determining a set of spatial parameters as a function of each of the at least two input audio channels into corresponding pluralities of frequency bands;

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- for each of the plurality of frequency bands determining the set of spatial parameters indicative of spatial properties of the at least two input audio channels within the corresponding frequency band.

4. (Previously Presented) A method according to any one of claims 1 through 3, wherein the set of spatial parameters includes at least one localization cue.

5. (Original) A method according to claim 4, wherein the set of spatial parameters includes at least two localization cues comprising an interchannel level difference and a selected one of an interchannel time difference and an interchannel phase difference.

6. (Previously Presented) A method according to claim 4, wherein the measure of similarity comprises information that cannot be accounted for by the localization cues.

7. (Previously Presented) A method according to claim 1, wherein the measure of similarity corresponds to a value of a cross-correlation function at a maximum of said cross-correlation function.

8. Cancelled.

9. (Currently Amended) An encoder for coding an **multi-channel** audio signal, the encoder comprising:

- means for generating a monaural signal comprising a combination of at least two input audio channels **wherein the at least two input audio channels are time/frequency sliced such that they can be analyzed as a function of time,**
- means for determining a set of spatial parameters of the at least two input audio channels and

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- means for generating an encoded signal comprising the monaural signal and the set of spatial parameters, ~~wherein the encoded signal includes generating a set of quantized spatial parameters, each introducing a corresponding quantization error relative to the corresponding determined spatial parameter, wherein at least one of the introduced quantization errors is controlled to depend on a value of at least one of the determined spatial parameters.~~

10. (Original) An apparatus for supplying an audio signal, the apparatus comprising:
- an input for receiving an audio signal,
 - an encoder as claimed in claim 9 for encoding the audio signal to obtain an encoded audio signal, and
 - an output for supplying the encoded audio signal.

11. Cancelled.

12. (Currently Amended) A computer readable medium including code for a method of coding an multi-channel audio signal, said medium comprising:

code for generating a monaural signal comprising a combination of at least two input audio channels. wherein the at least two input audio channels are time/frequency sliced such that they can be analyzed as a function of time,

representing a ~~code for determining a set of spatial parameters indicative of spatial parameters of~~ a measure of similarity of waveforms of the at least two input audio channels, and

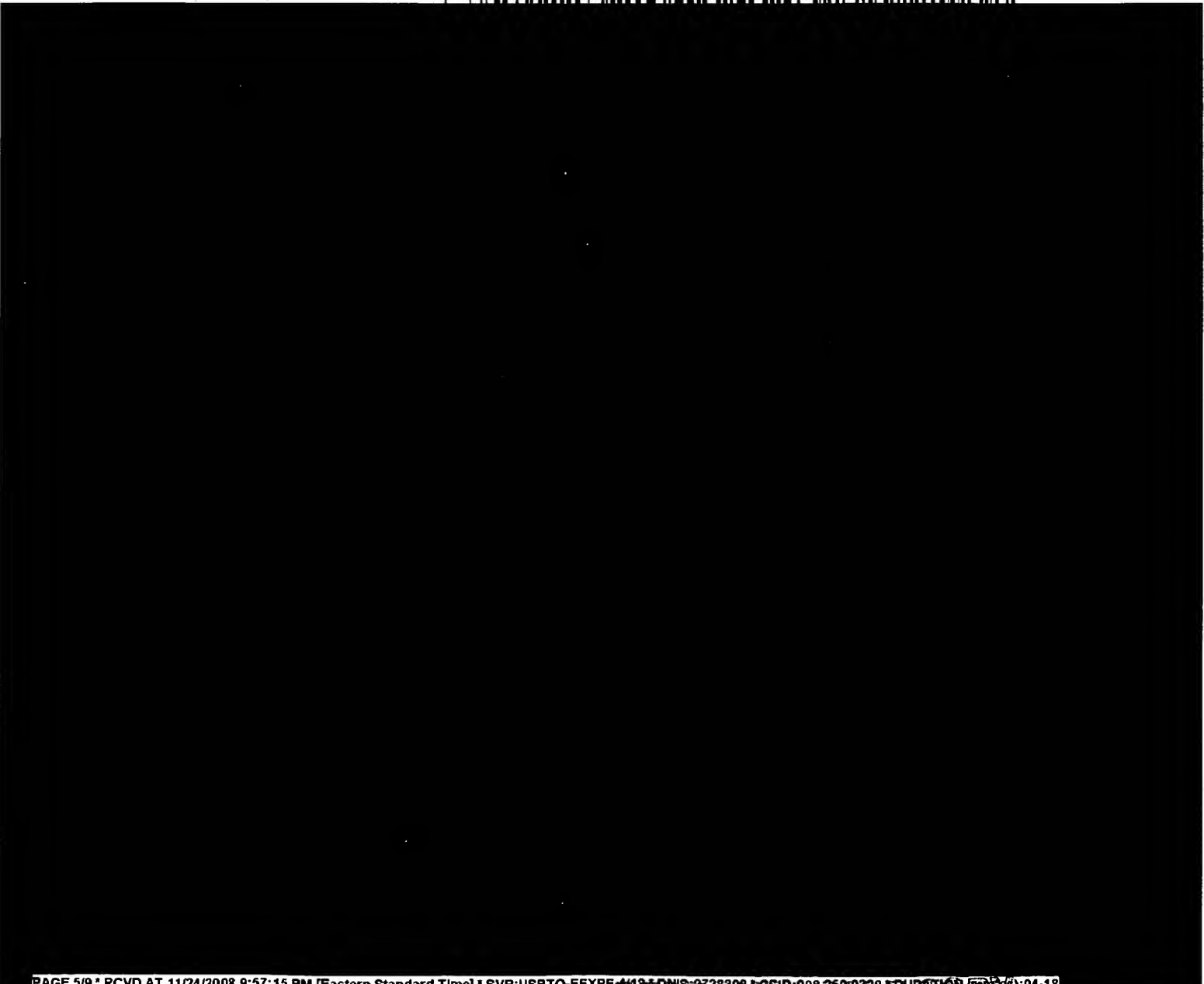
code for generating an encoded signal comprising the monaural signal and the set of spatial parameters, ~~wherein the encoded signal includes generating a set of quantized spatial parameters, each introducing a corresponding quantization error relative to the corresponding determined spatial parameter, wherein at least one of the introduced quantization errors is controlled to depend on a value of at least one of the determined spatial parameters.~~

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13. (Currently Amended) A method of decoding an encoded multi-channel audio signal, the method comprising:

- obtaining a monaural signal from the encoded audio signal, the monaural signal comprising a combination of at least two audio channels wherein the at least two input audio channels have been time/frequency sliced such that they can be analyzed as a



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15. Cancelled.

16. (New) A method according to claim 1, wherein the step of generating an encoded signal comprising the monaural signal and the set of spatial parameters comprises generating a set of quantized spatial parameters, each introducing a corresponding quantization error relative to the corresponding determined spatial parameter, wherein at least one of the introduced quantization errors is controlled to depend on a value of at least one of the determined spatial parameters

17. (New) A method according to claim 2, wherein the encoded signal includes generating a set of quantized spatial parameters, each introducing a corresponding quantization error relative to the corresponding determined spatial parameter, wherein at least one of the introduced quantization errors is controlled to depend on a value of at least one of the determined spatial parameters.

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